

1. (Currently Amended) A gearbox, comprising:  
a sealed housing for receiving a lubricant;  
a first rotational shaft provided in extending through a shoulder of the housing;  
a gear drive coupled to the rotational shaft below the shoulder to rotate the shaft;  
a first bearing journaling the first rotational shaft at a distance above the gear drive; and  
at least one channel opening radially to the shaft provided in the shoulder housing and  
extending to the bearing, a bottom lower portion of the channel being positioned above and  
adjacent the gear drive shoulder to receive lubricating fluid rotated by the gear-drive;  
wherein, as the gear rotates, rotating lubricants pass into the channel and are carried by  
momentum propelled to the first bearing for lubrication of the first bearing.
2. (Original) The gearbox as defined in claim 1, further comprising a recess  
provided at the bottom end of the channel, the recess being enlarged relative to the channel to  
capture rotating fluids.
3. (Currently Amended) The gearbox as defined in claim 1, wherein the channel  
extends from an upper end of the gear to a lower end of the first bearing further comprising a  
shoulder extending radially inward toward the rotational shaft from a wall of the housing.
4. (Currently Amended) The gearbox as defined in claim 1, wherein the distance  
between the an inner diameter of the shoulder and an outer diameter of the rotational shaft is  
selected to be sufficiently small that the viscosity of the lubricant restricts the opening between  
the inner diameter of the shoulder and the outer diameter of the rotational shaft to provide a  
resistance to the flow of fluid.
5. (Currently Amended) The gearbox as defined in claim 1, further comprising a  
second bearing positioned on the first rotational shaft nearer the gear drive than the first bearing,  
the channel extending past the second bearing to the first bearing and opening radially to the  
second bearing.
6. (Currently Amended) The gearbox as defined in claim 1, further comprising a  
second rotational shaft provided in the housing, the second rotational shaft being positioned at an  
angle to the first rotational shaft and coupled to the rotational shaft through the gear drive.
7. (Currently Amended) The gearbox as defined in claim 1, wherein the gearbox  
comprises a plurality of channels, each of the channels being spaced substantially equidistantly  
around a circumference of the housing surrounding the first rotational shaft.
8. (Original) The gearbox as defined in claim 6, wherein the housing comprises an  
upper section and a lower section, the upper section enclosing the first rotational shaft and the  
lower section enclosing the second rotational shaft.
9. (Original) The gearbox as defined in claim 8, wherein the upper section is a split  
case comprising a first and a second half.

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10. (Currently Amended) A gearbox, comprising:  
a sealed housing;  
a substantially vertical shaft ~~provided in~~ extending through a shoulder of the housing;  
an upper bearing and a lower bearing journaling the shaft;  
a gear drive coupled to the shaft;  
a lubricant provided in the housing for lubricating the gear drive;  
a shoulder positioned between the upper and lower bearings and ~~having an~~ extending radially inward from an internal diameter of the housing toward the shaft, the internal diameter of the shoulder being selected such that the viscosity of the lubricant restricts an opening between the shoulder and the ~~input~~ outer diameter of the shaft; and  
~~a at least one channel opening radially to the shaft provided in the housing shoulder and extending axially from the gear drive past the first lower bearing and the shoulder to the upper bearing;~~  
wherein as the gear drive rotates, the rotation causes the lubricant to be circulated ~~propelled~~ through the channel to lubricate the upper bearing.

11. (Original) The gearbox as defined in claim 10, further comprising a second shaft provided in the housing, the second shaft being positioned at an angle of substantially ninety degrees to the substantially vertical shaft.

12. (Original) The gearbox as defined in claim 10, further comprising a plurality of channels.

13. (Currently Amended) The gearbox as defined in claim 10, wherein a recess having a diameter greater than a diameter of the channel is provided at an end of the at least one channel adjacent the gear train.

14. (Currently Amended) The gearbox as defined in claim 10, wherein the channel angles from a wide point adjacent the gear train to a narrow point adjacent the upper bearing.

15. (Original) The gearbox as defined in claim 10, wherein the housing comprises an upper portion and a lower portion.

16. (Original) The gearbox as defined in claim 15, wherein the channel is provided in the upper portion.

17. The gearbox as defined in claim 16, further comprising a plurality of channels wherein the upper portion includes a first half and a second half, each of the first and second halves including at least one of the plurality of channels a channel, a first half of a second of the plurality of channels, and a second half of a third of the plurality of channels.

18. (Withdrawn) A method for lubricating a bearing on a substantially vertical shaft in a vertically configured right angle gear box including a housing with a quill surrounding the substantially vertical shaft using a lubricant from the gear box, the method comprising:

providing a channel in the quill adjacent the vertical shaft

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minimizing a distance between the vertical shaft and the quill such that a viscosity of the lubricant restricts the flow of fluids between the vertical shaft and the housing and fluids are therefore directed through the channel;

positioning an open bottom end of the channel adjacent a source of lubricating fluid; and rotating the gears in the gearbox, causing the lubricating fluid to move into the channel to lubricate the bearing.

19. (Withdrawn) The method as defined in claim 18, further comprising providing an enlarged recess around the open bottom end, the enlarged recess capturing the rotating fluids.

20. (Withdrawn) The method as defined in claim 18, further providing the step of providing a plurality of channels spaced equidistantly around the quill.

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